

ABSTRACT

Metal coating for a kitchen utensil

The invention relates to a metal coating for a utensil for cooking food products.

The coating consists of an aluminum-based alloy containing more than 80% by weight of one or more quasicrystalline or approximant phases, having the composition $Al_a(Fe_{1-x}X_x)_b(Cr_{1-y}Y_y)_cZ_zJ_j$ in which: X represents one or more elements isoelectronic with Fe, chosen from Ru and Os; Y represents one or more elements isoelectronic with Cr, chosen from Mo and W; Z is an element or a mixture of elements chosen from Ti, Zr, Hf, V, Nb, Ta, Mn, Re, Rh, Ni and Pd; J represents the inevitable impurities other than copper; $a + b + c + z = 100$; $5 \leq b \leq 15$; $10 \leq c \leq 29$; $0 \leq z \leq 10$; $xb \leq 2$; $yc \leq 2$; and $j < 1$.